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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/807,464	03/22/2004	Graham Ross	018190-340	2915	
21839	7590 01/11/2005		EXAMINER		
	ANE SWECKER & MA	BARTH, VINCENT P			
	POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			PAPER NUMBER	
,			2877		
				DATE MAILED: 01/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	•	10/807,464	ROSS, GRAHAM				
Office Action Summary		Examiner	Art Unit				
	•	Vincent P. Barth	2877				
	The MAILING DATE of this communication app	1 1 1 = 1 1 1 1	1				
Period for	or Reply						
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (3) will apply and will expire SIX (6) MONTHS cause the application to become ABANI	be timely filed 0) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. & 133).				
Status							
1)	Responsive to communication(s) filed on 22 M	ar. 2004 and 26 Aug. 2004 .	,				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) <u>1-15</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-15</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.					
Applicati	ion Papers						
9)[The specification is objected to by the Examine	r.					
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	under 35 U.S.C. § 119						
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Appl ity documents have been red i (PCT Rule 17.2(a)).	lication No ceived in this National Stage				
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413)				
2) Notic 3) Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/M	ail Date mal Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections under §103 Double Patenting & Basis for Double Patenting Rejection

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969). A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b). Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-15 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 2, 10, 14, 15 and 21 of Ross, U.S. Pat. No. 6,788,406 (7 Sept. 2004).
- 4. Referring to instant Claims 1-4, 7, 9, 10 and 15, Ross claims a device for inspecting solder connections (i.e., an optical inspection device) with an image receiving unit in the form of a camera (claim 1, col. 9, ln. 55; claim 2, col. 10, ln. 4). Ross does not explicitly disclose that the camera is a CCD camera (as in instant Claim 4), however, those of skill in the art practicing the invention would understand that a common form of camera for such use is a CCD camera. See MPEP §2144.03. Ross claims that the image receiving unit and image transmitting unit are coupled at each end to each other (claim 1, col. 9, lns. 56-58). Ross does not explicitly claim that such transmitting means is elongated, however, the unit would have a certain length as required to transmit the images, and moreover, in view of the drawings therein, those of skill in the art would understand the unit to be elongated. Ross claims that the tip assembly (i.e., implicitly at a distal end, as claimed) is removably coupled to the image transmitting means, including a reflecting device, and that at least one light emitting aperture is disposed adjacent an image receiving aperture (claim 1, col. 9, ln. 58 to col. 10, ln. 2). Ross does not explicitly disclose that the apertures are fixed in diameter, however, the ordinary meaning of the term aperture is an

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opening of a fixed diameter, unless stated otherwise. Ross does not claim that the elongated assembly does not contain a lens, however, Ross claims that the transmitting means may comprise fiber optics (claim 14, lns. 43-44), which is a means of transmitting without a lens. In the alternative, MPEP§ 2144.04(A)(II) states that omission of an element and its function is obvious if not desired, citing In re Kuhle, 526 F.2d 553, 188 USPQ 7 (CCPA 1975).

- 5. Referring to Claims 5 and 6, Ross claims that the image receiving unit and image transmitting unit are coupled at each end to each other (claim 1, col. 9, lns. 56-58), and that the transmitting means may comprise fiber optics (claim 14, lns. 43-44).
- Referring to Claim 8, Ross claims that the tip assembly (i.e., implicitly at a distal end, as claimed) is removably coupled to the image transmitting means, including a reflecting device, and that at least one light emitting aperture is disposed adjacent an image receiving aperture (claim 1, col. 9, ln. 58 to col. 10, ln. 2).
- 7. Referring to Claim 11, Ross claims that the device includes a display device coupled to the image receiving unit (claim 10, col. 10, lns. 28-31).
- 8. Referring to Claim 12, Ross claims that the tip assembly (i.e., implicitly at a distal end, as claimed) is removably coupled to the image transmitting means (claim 1, col. 9, ln. 58 to col. 10, ln. 2).
- 9. Referring to Claims 13 and 14, Ross claims that the device may have a second illumination device (claim 21, col. 11, lns. 21-25), and that the second illumination device may comprise a flexible shaft (claim 21, col. 11, lns. 21-25). Ross claims that the illumination means may be in the form of LED's (claim 15, col. 10, ln. 46).

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Comments

10. Applicant's amendment to the Specification has been reviewed, and will be entered without objection by the Examiner. The subject matter contained therein merely notes that the instant Application is a continuation, and thus does not introduce new matter.

CONCLUSION

- 11. Applicant's Claims 1-15 are rejected based on the reasons set forth above.
- 12. Any inquiries concerning this communication from the Examiner should be directed to Vincent P. Barth, whose telephone number is 571-272-2410, and who may be ordinarily reached from 9:00 a.m. to 5:30 p.m., Monday through Friday. The fax number for the group before final actions is 703-872-9306.
- 13. If attempts to reach the Examiner prove unsuccessful, the Examiner's supervisor is Gregory J. Toatley, Jr., who may be reached at 571-272-2800, ext. 77.
- 14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard A. Rósenberger Primary Examiner